

hydroxyproline, 5-hydroxylysine, 3-methylhistidine, homoserine,  
and ornithine may also be used to form agonists or antagonists of  
human urocortin-related peptide.

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IN THE CLAIMS:

~~Please cancel claims 2 and 3.~~

Please amend claim 1 as follows:

1. (amended) DNA encoding urocortin II selected from  
the group consisting of

(a) isolated and purified DNA encoding urocortin II  
protein that has an amino acid sequence of SEQ ID NO: 10 or 11;

(b) isolated and purified DNA encoding urocortin II  
protein, said DNA hybridizes at high stringency conditions to the  
complementary strand of the isolated DNA of (a) above, wherein high  
stringency conditions are characterized as membrane washing at  
high temperature and low salt concentration functionally equivalent  
to 0.1 x SSC at 65°C; and

(c) isolated and purified DNA encoding urocortin II  
protein, wherein said DNA differs from the isolated DNAs of (a) and

a<sup>9</sup> ~~away~~  
cont code. (b) above in codon sequence due to the degeneracy of the genetic

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Please amend claim 4 as follows:

a<sup>10</sup> 4. (amended) A vector comprising the DNA of claim 1  
and regulatory elements necessary for expression of said DNA in a  
cell.

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Please amend claim 6 as follows:

6. (amended) A host cell transfected with the vector  
of claim 4, said vector encodes urocortin II protein.

a<sup>11</sup> [Please amend claim 7 as follows:]

7. (amended) The host cell of claim 6, wherein said  
cell is selected from group consisting of a bacterial cell, a mammalian  
cell, a plant cell and an insect cell.

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